# Translation

# PATENT COOPERATION TREATY



# **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference						
7FG36480-PCT	FOR FURTHER	ACTION	See Form PCT/IPEA/416			
International application No.	International filing	late (day/month/year)	Priority date (day/month/year)			
PCT/JP2003/012253		2003 (25.09.2003)	26 September 2002 (26.09.2002)			
International Patent Classification (IPC) or n G06F 17/50			20 20ptember 2002 (20.07.2002)			
Applicant						
KABUSHIKI KAISHA TOSHIBA						
1. This report is the international preliminary examination report, established by this International Preliminary Examining						
Authority under Article 35 and trans	mitted to the applican	t according to Article 36				
2. This REPORT consists of a total of 6 sheets including the						
<ol> <li>This REPORT consists of a total of 6 sheets, including this cover sheet.</li> <li>This report is also accompanied by ANNEXES, comprising:</li> </ol>						
		=				
a (sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the descr and/or sheets cont Administrative Ins		drawings which have be uthorized by this Author	en amended and are the basis of this report rity (see Rule 70.16 and Section 607 of the			
sheets which supe beyond the disclos Supplemental Box	TODALLE THE THE THE	ut which this Authority al application as filed, a	considers contain an amendment that goes s indicated in item 4 of Box No. I and the			
		total of (indicate to-				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))  readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
Box No. I Basis of the rep	oort					
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of		,,	· · · · · · · · · · · · · · · · · · ·			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of	this report			
10 March 2004 (10.03.2004)			uly 2004 (14.07.2004)			
Name and mailing address of the IPEA/JP		Authorized officer				
Facsimile No.		Telephone No.				



international application No.

PCT/JP2003/012253

Box No. 1	Basis of the report
1. With rootherw	egard to the language, this report is based on the international application in the language in which it was filed, unless rise indicated under this item.
	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:
	international search (under Rules 12.3 and 23.1(b))
	publication of the international application (under Rule 12.4)
]	international preliminary examination (under Rules 55.2 and/or 55.3)
and are	regard to the elements of the international application, this report is based on (replacement sheets which have been need to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" to not annexed to this report):
	The international application as originally filed/furnished
. —	he description:
-	pages, as originally filed/furnished pages*
1 "	pages* received by this Authority on pages* received by this Authority on
l `	the claims:
_	pages, as originally filed/furnished pages*
_	, as amended (together with any statement) under Article 19
_	pages* received by this Authority on pages* received by this Authority on
l `	
	he drawings:
_	pages, as originally filed/furnished pages*
_	received by this Authority on
l L a	sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
]	The amendments have resulted in the cancellation of:
ļ	the description, pages
Į	the claims, Nos.
į	the drawings, sheets/figs
إ	the sequence listing (specify):
Ł	any table(s) related to sequence listing (specify):
	This report has been established as if (some of) the amendments annexed to this report and listed below had not been hade, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box Rule 70.2(c)).  The description, pages
Ļ	the claims, Nos.
Ļ	the drawings, sheets/figs
Ļ	the sequence listing (specify):
L	any table(s) related to sequence listing (specify):
* If item 4	applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

national application No.
PCT/JP 03/12253

Reasoned statement unde citations and explanations	r Article 35(2) with regard to novelty, inventive step or industrial applicability s supporting such statement	y;
Statement		
Novelty (N)	Claims 4-18, 20, 22	YES
	Claims 1-3, 19, 21	- NO
Inventive step (IS)	Claims	– YES
	Claims 1-22	- NO
Industrial applicability	(IA) Claims 1-22	
and approaching		_ YES
	Claims	NO
Citations and explanation	ons	
Document 1:	JP 06-309418 A (Hitachi, Ltd.), 04 Novem	ber
	1994, column 24, line 22 to column 25, l	ine
	1 and fig. 6, 10 and 15	
Document 2:	JP 2000-268066 A (Hitachi Seibu Software	<b>:</b>
	Kabushiki Kaisha), 29 September 2000, co	lumr
	13, lines 18-34	
Document 3:	JP 2000-331065 A (Hitachi, Ltd.), 30	
	November 2000, entire text, all drawings	
	JP 2000-305973 A (Matsushita Electric Wo	rks,
	Ltd.), 02 November 2000, column 36, line	42
	to column 38, line 20 and fig. 39-43	
Document 5: J	JP 09-171519 A (Nippon Telegraph and	
	Telephone Corporation), 30 June 1997, co	lumn
	15, lines 16-41 and fig. 5 and 24-27	
Document 6: J	JP 11-338702 A (Toshiba Corp.), 10 Decem	ber
	1999, column 68, line 12 to column 69, l	ine
	10	
Document 7: 3	JP 05-334316 A (Sumitomo Kinzoku System	
	Kaihatsu Kabushiki Kaisha), 17 December	
	1993, entire text, all drawings	
Document 8: JE	JP 2002-269402 A (Hino Motors, Ltd.), 20	
	September 2002, column 8, line 48 to col	umn
	9, line 7 and fig. 5	
Document 9:	JP 2001-323658 A (Sumitomo Forestry Co.,	

Ltd.), 22 November 2001, entire text, all drawings

## Claims 1-3, 19 and 21

Document 1 cited in the international search report discloses a design/production supporting system for designing the positions of the equipment in a plant, the piping therefor and the like by means of a three-dimensional CAD system, wherein it is possible to assign a serial number to each individual part and to automatically generate a chart for the parts, which includes the names of the parts, the materials, the dimensions of the parts and the inventory of parts, by means of the method for managing equipment design information that is illustrated in fig. 10.

#### Claim 4

Document 2 cited in the international search report discloses the feature of calculating the number of standard length straight pipes on the basis of the type of pipe and the diameter thereof that are input, and then determining whether or not the remaining length is shorter then the minimum cut pipe length.

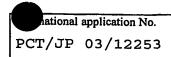
It would be easy for a person skilled in the art to combine the feature disclosed in document 2 with the invention disclosed in document 1.

#### Claims 5 and 8

Processing devices whereby the CAD data for a three-dimensional structure that is obtained by means of conventional CAD is converted into international standard specification data were well known in the technical field pertaining to CAD at the time of filing, as disclosed in document 3 cited in the international search report.

It would not be difficult to add the well-known

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feature disclosed in document 3 to the invention disclosed in document 1.

#### Claim 6

Document 4 cited in the international search report discloses balloons that are assigned to equipment that has been positioned upon a CAD drawing, and indicates determining whether or not an indicated piece of equipment is of the same type as a piece of equipment for which a balloon has already been created, wherein if the device is not of the same type, then a balloon is created in order to accommodate a newly assigned part number.

#### Claim 7

Document 5 cited in the international search report discloses the feature of conducting documentation processes on the basis of integrated data and file data by means of a document creation program.

It would be easy for a person skilled in the art to combine the feature disclosed in document 5 with the invention disclosed in document 1.

### Claims 9-12, 20 and 22

Document 6, which is newly cited in the international preliminary examination report, discloses the feature of determining numbering conventions on the basis of the different classifications and applications for the equipment. It would not be difficult to add the feature disclosed in document 6 to the invention disclosed in document 1.

#### Claim 13

Document 7 cited in the international search report discloses the feature of creating an estimated cost comparison sheet, like that which is presented in fig. 3,

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in order to compare the estimated costs before and after a proposed change.

It would not be difficult to add the features disclosed in documents 6 and 7 to the invention disclosed in document 1.

#### Claim 14

Newly cited document 8 discloses a feature wherein when assigning a number to a part, the part is assigned a repeat number in cases where it is possible to select a similar part from among parts that have been produced in the past. Therein, said similar product corresponds to the "parent part" in the present application.

It would not be difficult to add the features disclosed in documents 6 and 8 to the invention disclosed in document 1.

## Claims 15 and 16

Document 9 cited in the international search report discloses a method for allocating construction materials, wherein, with consideration of the yield, materials are allocated in order starting with the object that requires the longest material length and subsequent allocations are conducted while making comparisons with the lengths of the left-over materials.

It would not be difficult to add the features disclosed in documents 6 and 9 to the invention disclosed in document 1.

#### Claims 17 and 18

It would not be difficult to add the features disclosed in documents 2 and 6 to the invention disclosed in document 1.